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UniGene

PubMed Nucleotide Protein Genome Structure Popset Taxonomy

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UniGene Cluster Hs.323949 *Homo sapiens*

KAI1 Kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4))

SEE ALSO

LocusLink: [3732](#)

OMIM: [600623](#)

HomoloGene: [Hs.323949](#)

SELECTED MODEL ORGANISM PROTEIN SIMILARITIES
organism, protein and percent identity and length of aligned region

<i>H.sapiens</i> :	sp:P27701 - CD82_HUMAN CD82 antigen (Inducible membrane protein R2) (C33 antigen) (IA4) (Metastasis suppressor K)	100 % / 266 aa (see ProtEST)
<i>M.musculus</i> :	pir:I49561 - I49561 C33/R2/IA4 - mouse	76 % / 266 aa (see ProtEST)
<i>R.norvegicus</i> :	ref:NP_113985.1 - kangai 1 (suppression of tumorigenicity 6), prostate [<i>Rattus norvegicus</i>]	76 % / 266 aa (see ProtEST)
<i>C.elegans</i> :	ref:NP_510445.1 - tetraspanin [<i>Caenorhabditis elegans</i>]	27 % / 252 aa (see ProtEST)
<i>D.melanogaster</i> :	ref:NP_523985.1 - Tetraspanin 66E [<i>Drosophila melanogaster</i>]	29 % / 244 aa (see ProtEST)

MAPPING INFORMATION**Chromosome:** 11**OMIM Gene Map:** [11p11.2](#)**UniSTS entries:** [sts-X53795](#) Genomic Context: [Map View](#)**UniSTS entries:** [sts-X53795](#) Genomic Context: [Map View](#)**EXPRESSION INFORMATION****Note:** Highly represented (2.4 pct) in library [7914 EN0091](#)

cDNA sources: adenocarcinoma cell line ;normal epithelium ;metastatic melanoma to bowel ;lymph ;adenocarcinoma ;uterus ;rhabdomyosarcoma ;myeloid cells, 18 pooled CML cases, BCR/ABL rearrangement positive, includes both chronic phase and myeloid blast crisis ;epithelioid carcinoma ;colon ;Hypothalamus ;oligodendroglioma ;cord blood ;primary B-cells from tonsils (cell line) ;marrow ;follicular carcinoma ;malignant melanoma, metastatic to lymph node ;poorly-differentiated endometrial adenocarcinoma, 2 pooled tumors ;squamous cell carcinoma ;prostate ;uterus_tumor ;whole embryo, mainly head ;anaplastic oligodendroglioma with 1p/19q loss ;schizophrenic brain S-11 frontal lobe ;glioblastoma with EGFR amplification ;squamous cell carcinoma from base of tongue ;lung_normal ;tumor, 5 pooled (see description) ;placenta ;kidney ;hypernephroma, cell line ;nasopharyngeal carcinoma ;poorly differentiated adenocarcinoma with signet ring cell features ;melanocyte ;renal cell adenocarcinoma ;Purified pancreatic islet ;anaplastic oligodendroglioma ;skin ;melanotic melanoma, high MDR (cell line) ;hippocampus ;brain ;head_normal ;pooled pancreas and spleen ;Islets of Langerhans ;melanotic melanoma ;Ascites ;serous papillary carcinoma, high grade, 2 pooled tumors ;myeloma ;head_neck ;leukocyte ;human skeletal muscle ;Lung Focal Fibrosis ;Fibrosarcoma ;lymphoma, cell line ;hypernephroma ;normal pigmented retinal epithelium ;melanotic melanoma, cell line ;adrenal cortex carcinoma, cell line ;spleen ;amelanotic melanoma, cell line ;astrocytoma ;lung ;breast ;ductal carcinoma, cell line ;glioblastoma with probably TP53 mutation and without EGFR amplification ;adenocarcinoma, cell line ;tumor ;mixed (pool of 40 RNAs) ;Alveolar Macrophage ;umbilical vein ;ovarian tumor ;stomach ;liposarcoma ;invasive tumor (cell line)

SAGE · [Gene to Tag mapping](#)

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mRNA SEQUENCES (5)

<u>NM_002231</u>	Homo sapiens kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4)) (KAI1), mRNA	P
<u>BC001821</u>	Homo sapiens, Similar to kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4)), clone MGC:3696 IMAGE:2959683, mRNA, complete cds	P A
<u>BC000726</u>	Homo sapiens, kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4)), clone MGC:1713 IMAGE:2959683, mRNA, complete cds	P A
<u>U20770</u>	Human metastasis suppressor (KAI1) mRNA, complete cds	P
<u>S48196</u>	C33 antigen=type III integral membrane protein [human, T cell line MOLT-4, mRNA, 1624 nt]	P A

EST SEQUENCES (10 of 229)[[Show all ESTs](#)]

<u>BG468969</u>	cDNA clone	adenocarcinoma cell line	5' read	P M
	IMAGE:4645227			
<u>BE872332</u>	cDNA clone	adenocarcinoma	5' read	P M
	IMAGE:3850411			
<u>BG545481</u>	cDNA clone	lung	5' read	P M
	IMAGE:4700813			
<u>BG545505</u>	cDNA clone	lung	5' read	P M
	IMAGE:4700915			
<u>BE871165</u>	cDNA clone	adenocarcinoma	5' read	P M
	IMAGE:3852847			
<u>BE870989</u>	cDNA clone	adenocarcinoma	5' read	P M
	IMAGE:3853226			
<u>BG569716</u>	cDNA clone	lung	5' read	P M
	IMAGE:4717227			
<u>BG740864</u>	cDNA clone	skin	5' read	P M
	IMAGE:4779061			
<u>BG741307</u>	cDNA clone	skin	5' read	P M
	IMAGE:4779538			
<u>BE296864</u>	cDNA clone	rhabdomyosarcoma	5' read	P M
	IMAGE:3532040			

Key to Symbols

P Has similarity to known **Proteins** (after translation)

A Contains a poly-Adenylation signal

M Clone is putatively CDS-complete by **MGC** criteria

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LocusLink

PubMed Entrez BLAST OMIM Taxonomy Structure

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Click to Display mRNA-Genomic Alignments (spanning 54165 bps)

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e!	UCSC	MGC					

Homo sapiens Official Gene Symbol and Name (HGNC)**KAI1: kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4))****LocusID: 3732****Overview**

RefSeq Summary: This metastasis suppressor gene product is a membrane glycoprotein that is a member of the transmembrane 4 superfamily. Expression of this gene has been shown to be downregulated in tumor progression of human cancers and can be activated by p53 through a consensus binding sequence in the promoter. Its expression and that of p53 are strongly correlated, and the loss of expression of these two proteins is associated with poor survival for prostate cancer patients.

Proteome Summary: Member of the transmembrane 4 superfamily (TM4SF); functions as an activation antigen of T cells

Locus Type: gene with protein product, function known or inferred

Product: kangai 1

Alternate Symbols: R2, 4F9, C33, IA4, ST6, CD82, GR15, SAR2

Alias: CD82 antigen
R2 leukocyte antigen
suppressor of tumorigenicity 6

Function

Phenotype: Prostate cancer, susceptibility to